

AMENDMENTS

In the Claims

Please cancel claims 75-82 without prejudice.

No claims have been amended.

Claims 1-74 are pending and are listed following:

1. (original) A system, comprising:

a first device configured to request a data set having a plurality of individual records, the individual records having information to describe data in the data set;

a second device configured to receive the request and encode the data set with a compression function to generate an encoded data set, the compression function determined from information that is common to the individual records in the data set;

the second device further configured to communicate an expansion function to the first device, the expansion function including the information that is common to the individual records in the data set; and

the first device further configured to receive the encoded data set and expand the encoded data set with the expansion function, wherein individual records in the encoded data set are expanded to include the common information.

1 2. (original) A system as recited in claim 1, further comprising a
2 communication component configured to compress the encoded data set using a
3 content compression algorithm before communicating the encoded data set to the
4 first device.

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6 3. (original) A system as recited in claim 1, further comprising a
7 first communication component configured to compress the encoded data set using
8 a content compression algorithm before communicating the encoded data set to the
9 first device, and a second communication component configured to decompress
10 the encoded data set before the first device receives the encoded data set.

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12 4. (original) A system as recited in claim 1, wherein the second
13 device is further configured to determine the compression function after receiving
14 the request for the data set.

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16 5. (original) A system as recited in claim 1, wherein the first device
17 is further configured to render the individual records in the data set after the first
18 device expands the encoded data set with the expansion function.

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20 6. (original) A system as recited in claim 1, wherein the first device
21 is further configured to render the individual records in the data set before the first
22 device expands the encoded data set with the expansion function.

1 7. (original) A system as recited in claim 1, wherein the second
2 device encodes the entire data set with the compression function and
3 communicates the encoded data set to the first device.

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5 8. (original) A system as recited in claim 1, wherein the second
6 device generates the encoded data set by removing the information that is common
7 to the individual records in the data set.

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9 9. (original) A system as recited in claim 1, wherein the second
10 device generates the encoded data set by removing only the information that is
11 common to the individual records in the data set.

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13 10. (original) A system as recited in claim 1, wherein the encoded
14 data set includes the data without the information that is common to the individual
15 records in the data set.

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17 11. (original) A system as recited in claim 1, wherein the data is not
18 encoded with the compression function, and wherein the information that is
19 common to the individual records in the data set is encoded with the compression
20 function.

1 **12. (original)** A logical compression system, comprising:
2 a data set having a plurality of individual records, the individual records
3 having semantic information to describe data in the data set;
4 a compression function determined from semantic information that is
5 common to the individual records in the data set;
6 an expansion function that includes the semantic information that is
7 common to the individual records in the data set; and
8 wherein the data set is encoded using the compression function to generate
9 an encoded data set that is communicated to a destination device along with the
10 expansion function, such that the encoded data set can be expanded at the
11 destination device.

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13 **13. (original)** A logical compression system as recited in claim 12,
14 wherein the encoded data set is compressed using a content compression algorithm
15 before the encoded data set is communicated to the destination device.

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17 **14. (original)** A logical compression system as recited in claim 12,
18 wherein the encoded data set is compressed using a content compression algorithm
19 before the encoded data set is communicated to the destination device, and
20 wherein the encoded data set is decompressed before the destination device
21 receives the encoded data set.
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1 **15. (original)** A logical compression system as recited in claim 12,
2 wherein the individual records include text data and semantic information
3 associated with the text data to describe the text data.

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5 **16. (original)** A logical compression system as recited in claim 12,
6 wherein the individual records include text data and semantic information
7 associated with the text data to describe the text data, and wherein the quantity of
8 the semantic information is significantly greater than the quantity of the text data
9 in each of the individual records.

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11 **17. (original)** A logical compression system as recited in claim 12,
12 wherein the individual records include image data and semantic information
13 associated with the image data to describe the image data.

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15 **18. (original)** A logical compression system as recited in claim 12,
16 wherein the individual records include image data and semantic information
17 associated with the image data to describe the image data, and wherein the
18 quantity of the semantic information is significantly greater than the quantity of
19 the image data in each of the individual records.

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21 **19. (original)** A logical compression system as recited in claim 12,
22 wherein the compression function is determined after receiving a request for the
23 data set.

1 **20. (original)** A logical compression system as recited in claim 12,
2 wherein the compression function is determined before receiving a request for the
3 data set.

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5 **21. (original)** A logical compression system as recited in claim 12,
6 wherein individual records in the encoded data set are rendered at the destination
7 device after the encoded data set is expanded.

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9 **22. (original)** A logical compression system as recited in claim 12,
10 wherein individual records in the encoded data set are rendered at the destination
11 device before the encoded data set is expanded.

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13 **23. (original)** A logical compression system as recited in claim 12,
14 wherein the entire data set is encoded with the compression function to generate
15 the encoded data set that is communicated to the destination device.

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17 **24. (original)** A logical compression system as recited in claim 12,
18 wherein the encoded data set is generated by removing the semantic information
19 that is common to the individual records in the data set.

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21 **25. (original)** A logical compression system as recited in claim 12,
22 wherein the encoded data set is generated by removing only the semantic
23 information that is common to the individual records in the data set.
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1 26. (original) A logical compression system as recited in claim 12,
2 wherein the encoded data set includes the data without the semantic information
3 that is common to the individual records in the data set.

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5 27. (original) A logical compression system as recited in claim 12,
6 wherein the data is not encoded with the compression function, and wherein the
7 semantic information that is common to the individual records in the data set is
8 encoded with the compression function.

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10 28. (original) A computing device comprising the logical
11 compression system as recited in claim 12.

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13 29. (original) A logical compression system, comprising:
14 an encoded data set having a plurality of individual records, each of the
15 individual records including data;

16 an expansion function that includes semantic information that is common to
17 the individual records in the encoded data set, the semantic information describing
18 the data in each of the individual records; and

19 wherein the individual records in the encoded data set are expanded with
20 the expansion function such that each of the individual records include the data
21 and the semantic information that is common to the individual records.

1 **30. (original)** A logical compression system as recited in claim 29,
2 wherein the encoded data set and the expansion function are received from a data
3 provider that generates the encoded data set with a compression function
4 determined from the common semantic information.

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6 **31. (original)** A logical compression system as recited in claim 29,
7 wherein the data is text data and each of the individual records include the text
8 data and semantic information associated with the text data after being expanded
9 with the expansion function, and wherein the quantity of the semantic information
10 associated with the text data is significantly greater than the quantity of the text
11 data in each of the individual records.

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13 **32. (original)** A logical compression system as recited in claim 29,
14 wherein the data is image data and each of the individual records include the
15 image data and semantic information associated with the image data after being
16 expanded with the expansion function, and wherein the quantity of the semantic
17 information associated with the image data is significantly greater than the
18 quantity of the image data in each of the individual records.

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20 **33. (original)** A logical compression system as recited in claim 29,
21 wherein the individual records in the encoded data set are rendered after the
22 individual records are expanded with the expansion function.
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1 **34. (original)** A logical compression system as recited in claim 29,
2 wherein individual records in the encoded data set are rendered before the
3 individual records are expanded with the expansion function.

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5 **35. (original)** A logical compression system as recited in claim 29,
6 wherein the encoded data set includes the data without the semantic information
7 that is common to the individual records in the encoded data set.

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9 **36. (original)** A logical compression system as recited in claim 29,
10 wherein the data is not expanded with the expansion function, and wherein the
11 semantic information that is common to the individual records in the encoded data
12 set is expanded with the expansion function.

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14 **37. (original)** A computing device comprising the logical
15 compression system as recited in claim 29.
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38. (original) A method, comprising:

determining a compression function for a data set having a plurality of individual records, the compression function determined from information that is common to the individual records in the data set;

generating an encoded data set using the compression function by removing the information that is common to the individual records in the data set; and

determining an expansion function for the encoded data set, the expansion function including the information that is common to the individual records in the data set.

39. (original) A method as recited in claim 38, further comprising transmitting the expansion function and the encoded data set to a destination device.

40. (original) A method as recited in claim 38, further comprising compressing the encoded data set using a content compression algorithm to generate a compressed encoded data set, and transmitting the expansion function and the compressed encoded data set to a destination device.

41. (original) A method as recited in claim 38, further comprising expanding the encoded data set using the expansion function, wherein individual records in the encoded data set are expanded to include the common information.

1 **42. (original)** A method as recited in claim 38, further comprising
2 transmitting the expansion function and the encoded data set to a destination
3 device, and expanding the encoded data set using the expansion function, wherein
4 individual records in the encoded data set are expanded to include the common
5 information.

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7 **43. (original)** A method as recited in claim 42, further comprising
8 displaying the individual records in the encoded data set after said expanding the
9 encoded data set.

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11 **44. (original)** A method as recited in claim 42, further comprising
12 displaying the individual records in the encoded data set before said expanding the
13 encoded data set.

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15 **45. (original)** A method as recited in claim 38, wherein the
16 individual records include text data and information associated with the text data
17 to describe the text data.

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19 **46. (original)** A method as recited in claim 38, wherein the
20 individual records include text data and information associated with the text data
21 to describe the text data, and wherein the quantity of the information is
22 significantly greater than the quantity of the text data in each of the individual
23 records.
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1 47. (original) A method as recited in claim 38, wherein the
2 individual records include image data and information associated with the image
3 data to describe the image data.

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5 48. (original) A method as recited in claim 38, wherein the
6 individual records include image data and information associated with the image
7 data to describe the image data, and wherein the quantity of the information is
8 significantly greater than the quantity of the image data in each of the individual
9 records.

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11 49. (original) A method as recited in claim 38, further comprising
12 receiving a request for the data set, and said determining the compression function
13 after said receiving the request.

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15 50. (original) A method as recited in claim 38, further comprising
16 receiving a request for the data set, and said determining the compression function
17 before said receiving the request.

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19 51. (original) A method as recited in claim 38, wherein the entire
20 data set is encoded using the compression function when said generating the
21 encoded data set.

1 **52. (original)** A method as recited in claim 38, wherein said
2 generating includes removing only the information that is common to the
3 individual records in the data set.

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5 **53. (original)** A method as recited in claim 38, wherein the
6 individual records include data and information to describe the data, and wherein
7 the encoded data set includes the data without the information that is common to
8 the individual records in the data set.

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10 **54. (original)** A method as recited in claim 38, wherein:
11 the individual records include data and information to describe the data;
12 the data is not encoded using the compression function when said
13 generating the encoded data set; and
14 the information that is common to the individual records in the data set is
15 encoded using the compression function when said generating the encoded data
16 set.

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18 **55. (original)** One or more computer-readable media comprising
19 computer-executable instructions that, when executed, direct a computing system
20 to perform the method of claim 38.
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1 **56. (original)** A method, comprising:

2 identifying a compression function associated with a data set having a
3 plurality of records, the compression function including semantic information that
4 is common to multiple records in the data set;

5 encoding the data set using the compression function to generate an
6 encoded data set;

7 identifying an expansion function associated with the encoded data set, the
8 expansion function including the semantic information that is common to the
9 multiple records in the data set; and

10 transmitting the expansion function and the encoded data set to a
11 destination device such that the destination device can expand the encoded data set
12 using the expansion function.

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14 **57. (original)** A method as recited in claim 56, further comprising
15 compressing the encoded data set using a content compression algorithm before
16 the encoded data set is transmitted to the destination device.

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18 **58. (original)** A method as recited in claim 56, further comprising
19 expanding the encoded data set with the expansion function, wherein multiple
20 records in the encoded data set are expanded to include the common semantic
21 information.
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1 **59. (original)** A method as recited in claim 56, further comprising
2 displaying multiple records in the encoded data set after the destination device
3 expands the encoded data set.

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5 **60. (original)** A method as recited in claim 56, further comprising
6 displaying multiple records in the encoded data set before the destination device
7 expands the encoded data set.

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9 **61. (original)** A method as recited in claim 56, wherein the plurality
10 of records include text data and semantic information associated with the text data
11 to describe the text data.

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13 **62. (original)** A method as recited in claim 56, wherein the plurality
14 of records include text data and semantic information associated with the text data
15 to describe the text data, and wherein the quantity of the semantic information is
16 significantly greater than the quantity of the text data in each of the plurality of
17 records.

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19 **63. (original)** A method as recited in claim 56, wherein plurality of
20 records include image data and semantic information associated with the image
21 data to describe the image data.

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1 **64. (original)** A method as recited in claim 56, wherein plurality of
2 records include image data and semantic information associated with the image
3 data to describe the image data, and wherein the quantity of the semantic
4 information is significantly greater than the quantity of the image data in each of
5 the plurality of records.

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7 **65. (original)** A method as recited in claim 56, wherein the entire
8 data set is encoded using the compression function when said encoding.

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10 **66. (original)** A method as recited in claim 56, wherein said
11 encoding comprises removing only the semantic information that is common to
12 the multiple records in the data set.

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14 **67. (original)** A method as recited in claim 56, wherein the plurality
15 of records include data and semantic information to describe the data, and wherein
16 the encoded data set includes the data without the semantic information that is
17 common to the multiple records in the data set.
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1 **68. (original)** A method as recited in claim 56, wherein:
2 the plurality of records include data and semantic information to describe
3 the data;
4 the data is not encoded using the compression function when said encoding;
5 and
6 the semantic information that is common to the multiple records in the data
7 set is encoded using the compression function when said encoding.

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9 **69. (original)** One or more computer-readable media comprising
10 computer-executable instructions that, when executed, direct a computing system
11 to perform the method of claim 56.

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13 **70. (original)** A computer-readable medium comprising computer
14 executable instructions that, when executed, direct a computing system to perform
15 a method comprising:

16 identifying a compression function associated with a plurality of data
17 records, the compression function including semantic information that is common
18 to multiple records of the plurality of data records;

19 encoding the multiple records using the compression function to generate a
20 data set; and

21 identifying an expansion function associated with the data set, the
22 expansion function including the semantic information that is common to the
23 multiple records.
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1 **71. (original)** One or more computer-readable media as recited in
2 claim 70, wherein the method further comprises transmitting the expansion
3 function and the data set to a destination device such that the destination device
4 can expand the data set using the expansion function.

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6 **72. (original)** One or more computer-readable media as recited in
7 claim 70, wherein the method further comprises expanding the data set using the
8 expansion function, wherein multiple records in the data set are expanded to
9 include the common semantic information.

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11 **73. (original)** One or more computer-readable media as recited in
12 claim 70, wherein the method further comprises transmitting the expansion
13 function and the data set to a destination device, and expanding the data set using
14 the expansion function, wherein multiple records in the data set are expanded to
15 include the common semantic information.

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17 **74. (original)** One or more computer-readable media as recited in
18 claim 70, wherein the plurality of records include data and semantic information to
19 describe the data, and wherein the data set includes the data without the semantic
20 information that is common to the multiple records.

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